

SECTION 05402 - PRE-ENGINEERED METAL BUILDING

1. CONTRACTOR shall furnish and erect a pre-engineered metal building in accordance with the outline drawings and these specifications.
2. The building shall be 50 feet wide and 50 feet deep, out-to-out of walls. The clear door opening height shall be 14 feet. The building interior shall have a clear height of at least 14 feet throughout a 50 foot wide zone centered on the building ridge. This clear height shall be measured to the lowest fixed object, whether a structural member, light fixture, or other item.
3. The building structures shall consist of primary frames of hot-rolled steel structural shapes or welded steel built-up numbers, having secondary cold-rolled 'Z' or 'C' purlins and girts. All roof slopes shall be 1 in 12. All primary frame members, purlins, girts, and other secondary members shall be furnished with red oxide primer.
5. All building components shall be furnished by a single manufacturer, which shall be a well established manufacturer of pre-engineered metal buildings. Subject to compliance with requirements, the building may be furnished by one of the following manufacturers, or other manufacturer of similar capability approved by the OWNER:

American Buildings Company
Butler Manufacturing Company
Ceco Buildings Division
Kirby Building Systems, Incorporated
Star Building Systems
Varco-Pruden Buildings

6. The building shall be designed by an Engineer registered in the State of Florida, to safely resist all horizontal wind loads, vertical live loads, dead loads, collateral and operating loads such as the chain hoist, fire suppression (sprinkler) system, and sliding doors and all other loads imposed upon the structure, as set forth in the current edition of the Standard Building Code. The building is located in a Coastal Windborne Debris Zone rated at 120 MPH and shall be designed to meet code requirements for this zone. The concrete slab foundations, anchor bolts, etc., shall be designed an Engineer registered in the State of Florida to safely resist all reactions of the structure (see Section 03300).
7. The wall and sliding door sheeting, and metal trim components, shall be 26-gauge (minimum thickness) steel sheets which shall be galvanized or aluminum coated, primed, and factory-finished with a fluoropolymer finish for which the manufacturer shall provide a 15-year warranty against failure by fading, cracking, peeling or rust-through. The original warranty shall be delivered to the OWNER. Colors shall be selected by the OWNER, from the manufacturer's standard colors. Wall and door sheeting shall be attached by non-corrodible self-drilling screws with neoprene washers. The frame of the building shall be primed with red oxide primer.
8. The roof covering shall be 24-gauge (minimum thickness).
9. The building shall be provided with seals, gaskets, trim closures, base angles, etc., as required to provide a watertight structure. Doors shall be well gasketed, and gaskets shall be adjusted to seal well but allow the doors to operate smoothly.
10. Provide 40 L.F. of ridge vents, installed.
11. No insulation is required.
12. The building shall be erected by a firm experienced and regularly engaged in commercial steel building erection and approved by the building manufacturer. Primary structural

frame bolts shall be tested for tightness by the Test Lab (See Special Provisions, Section 8).

13. Either roll up doors or sectional doors are acceptable, but must be wind rated for the building location.

END OF SECTION